

Year 11 Higher Scheme of Learning

	Week	Topic	Notes	Specification ref.	
Term 1	1	Exponential graphs	Review (year 9)	A12, A14, R16	
	2	Kinematics	Distance-time graphs/velocity-time graphs. Area under a graph (trapezium rule). SUVAT equations	A15, R14, R15	
	3	Sequences	Review (year 9): decreasing linear, quadratic, geometric, Fibonacci & fractional	A23, A24, A25	
	4	Revision, exam, review			
	5	Statistics	Review (year 9): mean/median from grouped data, back-to-back stem & leaf diagrams, quartiles	G14, S2, S4	
	6	Probability	Review (year 10): Venn diagrams. Inc. two-way tables	P1, P3, P4, P6, P7, P8, P9	
	7	Algebraic proof, similarity and congruence	Review proof (year 10): inc. odd numbers, negative outside brackets, etc.	A1, A4, A6, R6, R12, G5, G6, G19	
	HALF TERM				
	8	Angles	Review (year 9): angles in polygons & parallel lines. Focus on reasoning and algebraic problems	N15, A5, G1, G3, G4, G6	
	9	Volumes and Scale Factors	Review (year 10) Find volumes of solids, understand the effect of scale factor on volume	R6, R12, G6, G19	
	10	Circle theorems and proofs	Review (year 9): solve problems using theorems and look at proofs	G9, G10	
	11	Surds, indices and standard form	Review (year 9 & 10): use FM questions, inc. rationalising	N3, N6, N7, N8, N9, N14, A4, A5, A6	
	12	Revision, exam (all 3 papers), review			
	13	Revision, exam (all 3 papers), review			
	14	Trigonometry review (1)	Review (year 9 & 10): SOHCAHTOA, sine & cosine rules (inc. bearings), area of triangles, exact values, trig. graphs (an	N8, N15, A4, A5, G6, G11, G20, G21, G22, G23, G24	
15	Trigonometry review (2)	Review (year 9 & 10): SOHCAHTOA, sine & cosine rules (inc. bearings), area of triangles, exact values, trig. graphs (an	N8, N15, A4, A5, G6, G11, G20, G21, G22, G23, G25		
CHRISTMAS					
Term 2	16	Algebraic fractions	Review (year 9): focus on co-efficient $a > 1$ (see June 2017, paper 2, qu. 19)	A1, A3, A4, A6	
	17	Ratio	Review (year 9): dividing line into a given ratio and writing as fractions	N11, R2, R4, R5, R6, R7, R8	
	18	Direct and inverse proportion	Inc. squares, cubes, roots, etc.	A7, R7, R10, R13, R14	
	19	Scientific formulae	Review (year 10): SDT inc. average speed from two journeys. DMV inc. changing units. PFA	N13, R1, R11	
	20	Constructions	Review (year 10): constructions and loci (also review enlargements with negative scale factors)	R2, R6, G2, G7, G13, G15	
	21	Quadratics	Use the graph of one to solve another by drawing on a straight line. Complete the square	A8, A9, A10, A11, A12, A18, A19	
	HALF TERM				
	22	Simultaneous Linear and Quadratic Equations	Review (year 10): Solve simultaneously including equation of a circle	A19, A21, A22	
	23	Functions and iterative methods	Review (year 10): composite and inverse functions	A4, A5, A6, A7, A18, A20, R16	
	24	Exam papers and in-class revision			
	25	Revision, exam (all 3 papers), review			
	26	Revision, exam (all 3 papers), review			
	27	Exam papers and in-class revision			
28	Exam papers and in-class revision				